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Technical Document Distribution

Brand: Crumar Model DS-2

Product: Digital Synthesizer

Description: Schematic

Musicparts Document Number: 47900 TechTips: No Pages: 36 Dated: None

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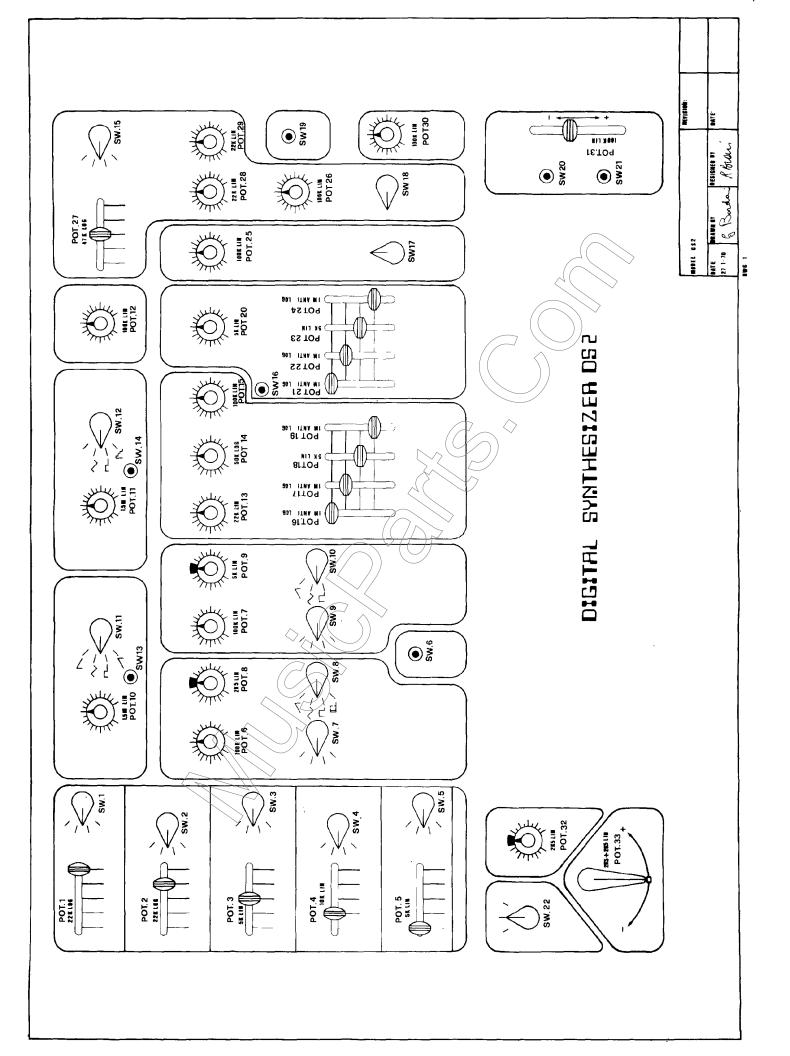
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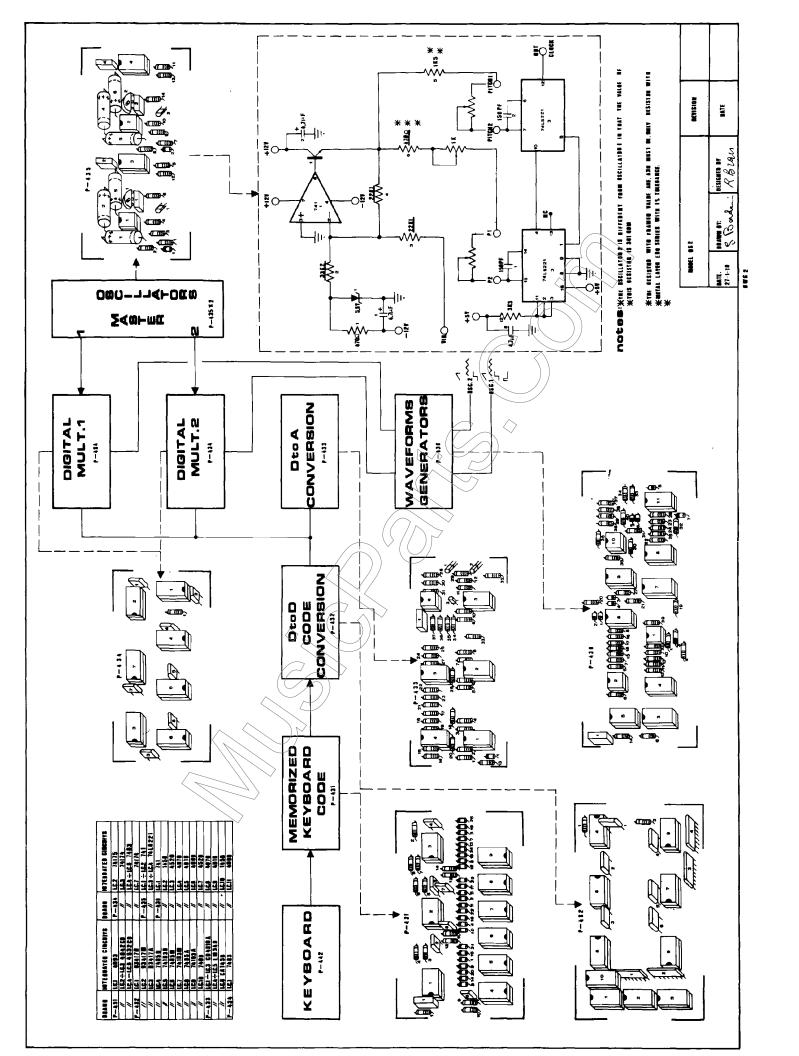
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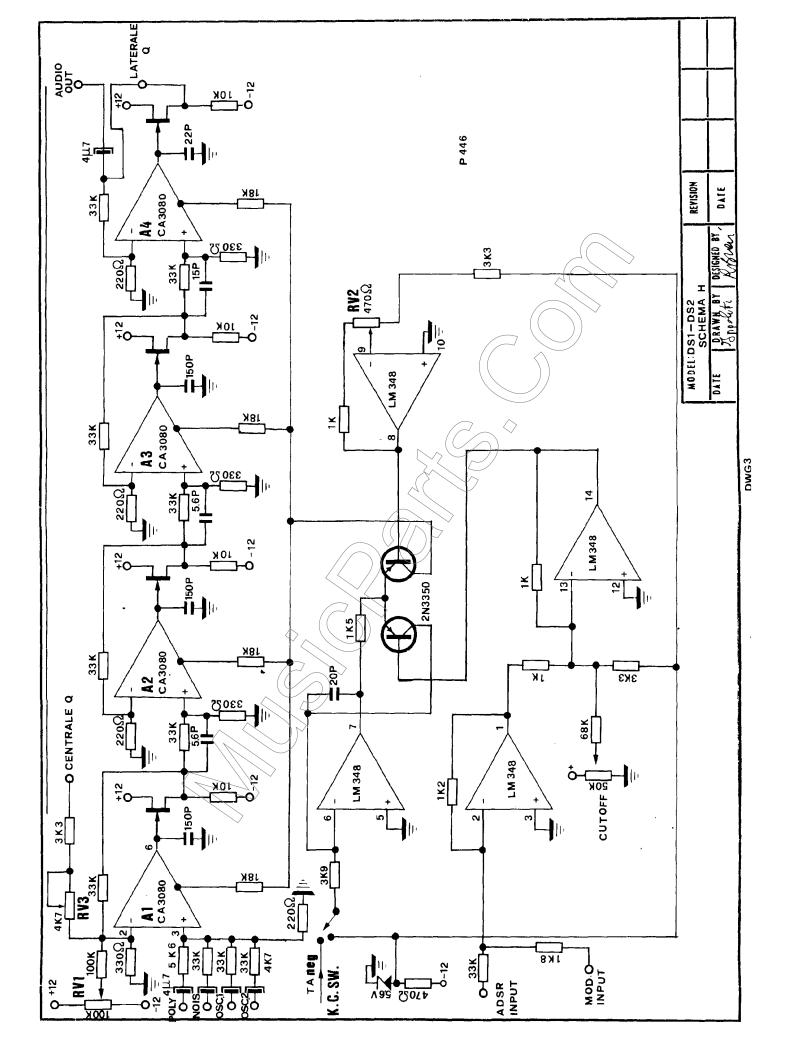
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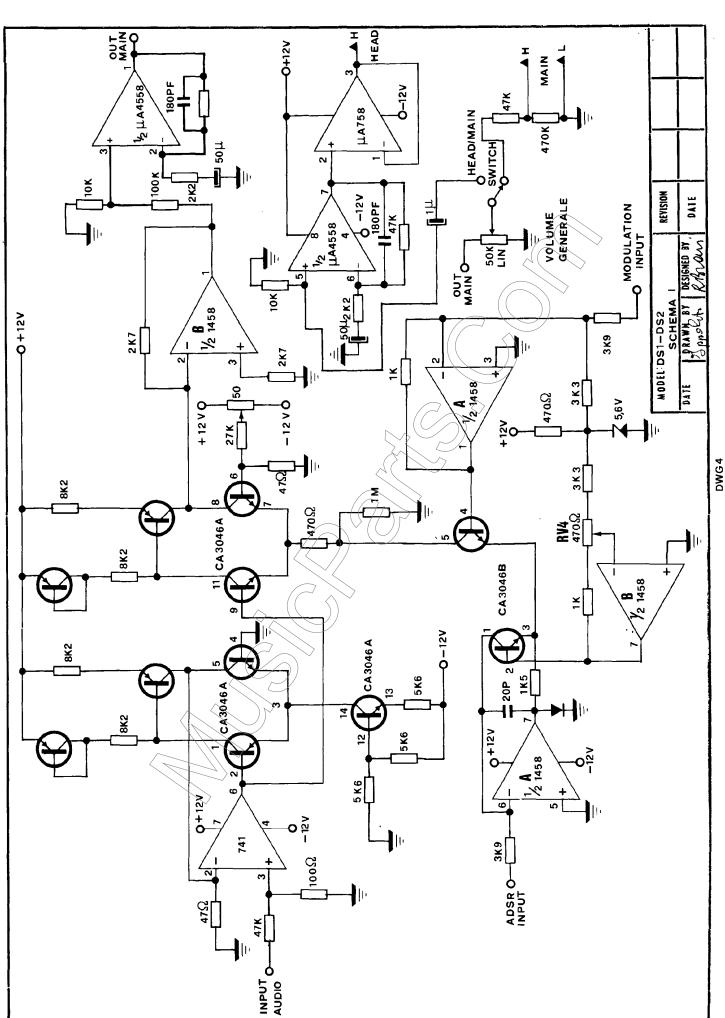
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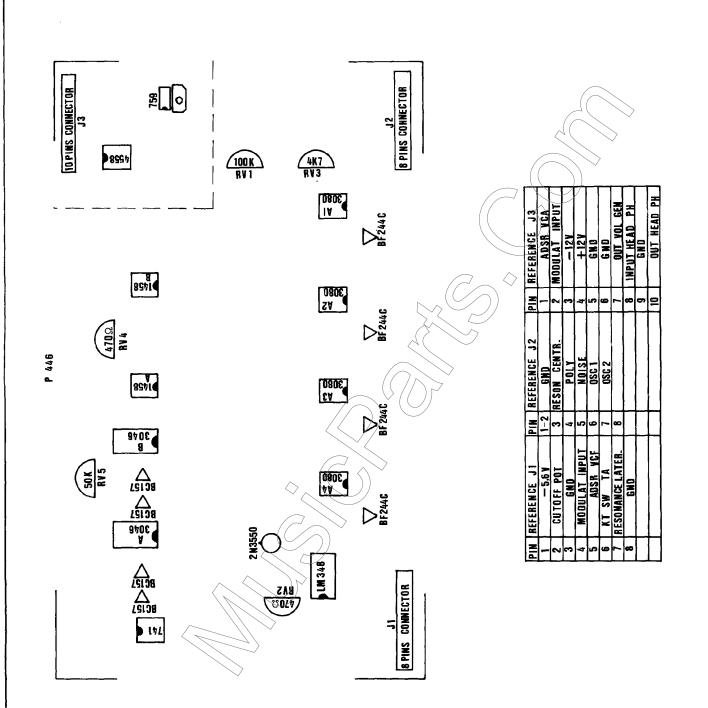
SCHEMATIC DIAGRAM DS-2 mod. CRUMARA R





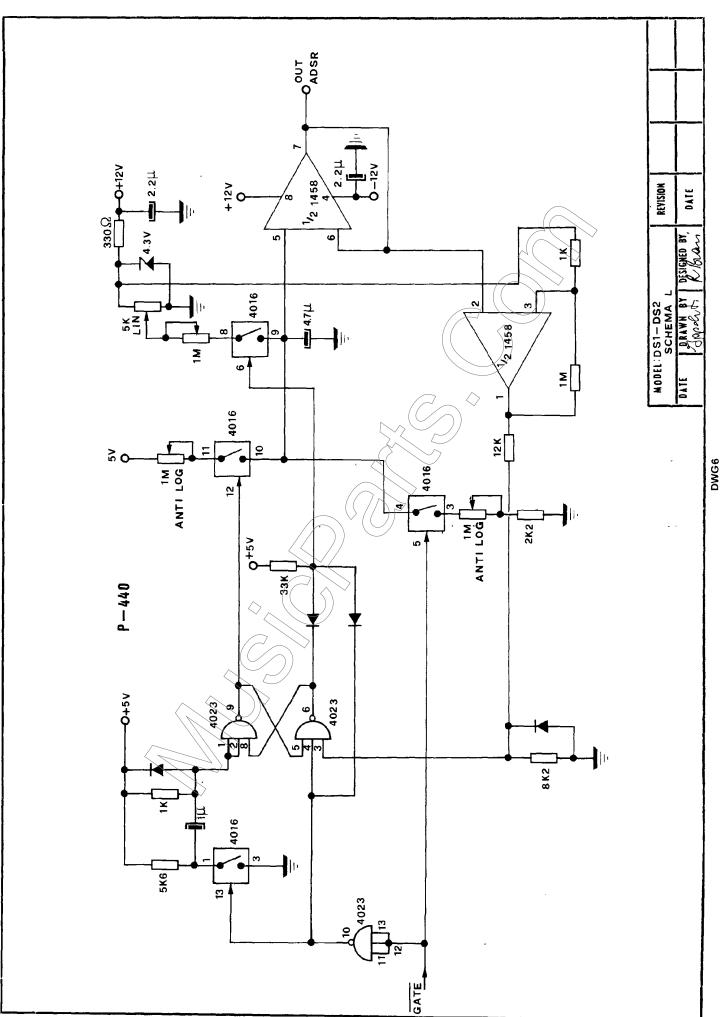




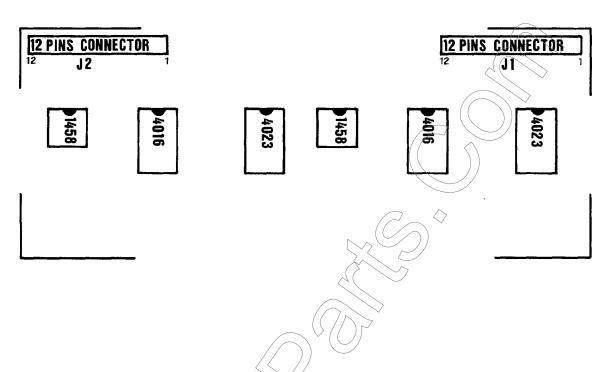


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MODEL DS1 DS2
SCHEMA
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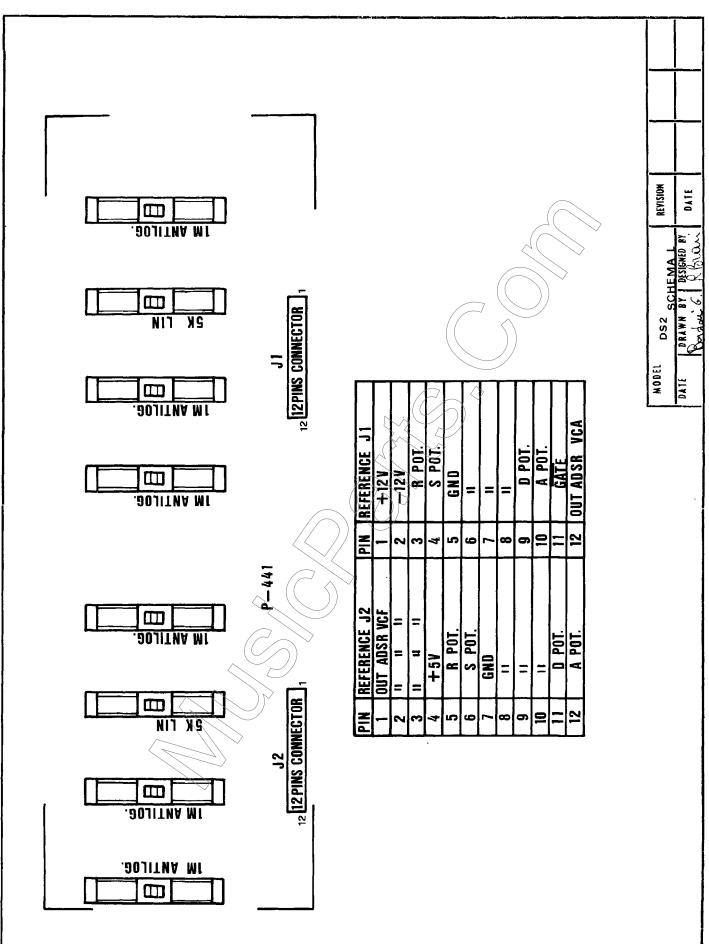




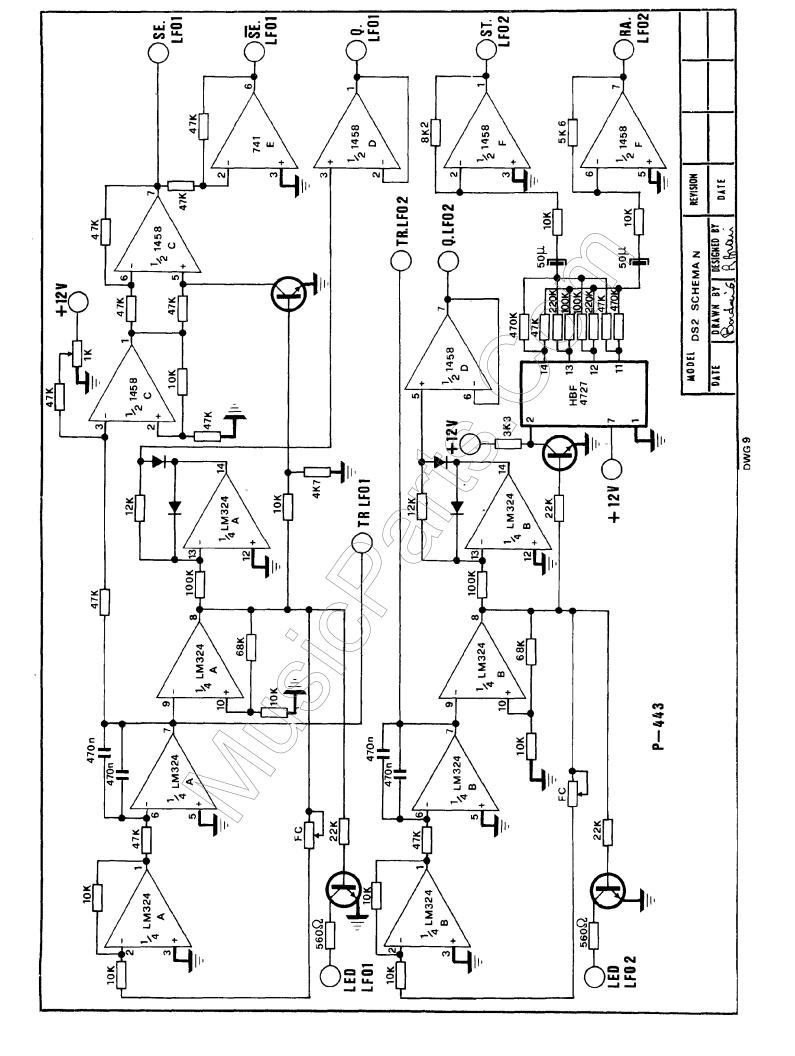
PIN	REFERENCE J1	PIN	REFERENCE J2
	+121/	1	
2	→ 12 V	2	OUT ADSR VCF
3	R POT	3	
4	S P01	4	+57
5	(GND)	5	R POT
6	GND	6	S POT
7	GND	7	GND
8	GND	8	GND
9	D POT	9	GND
10	A POT	10	GND
111	GATE	11	D POT
12	OUT ADSR VCA	12	A POT

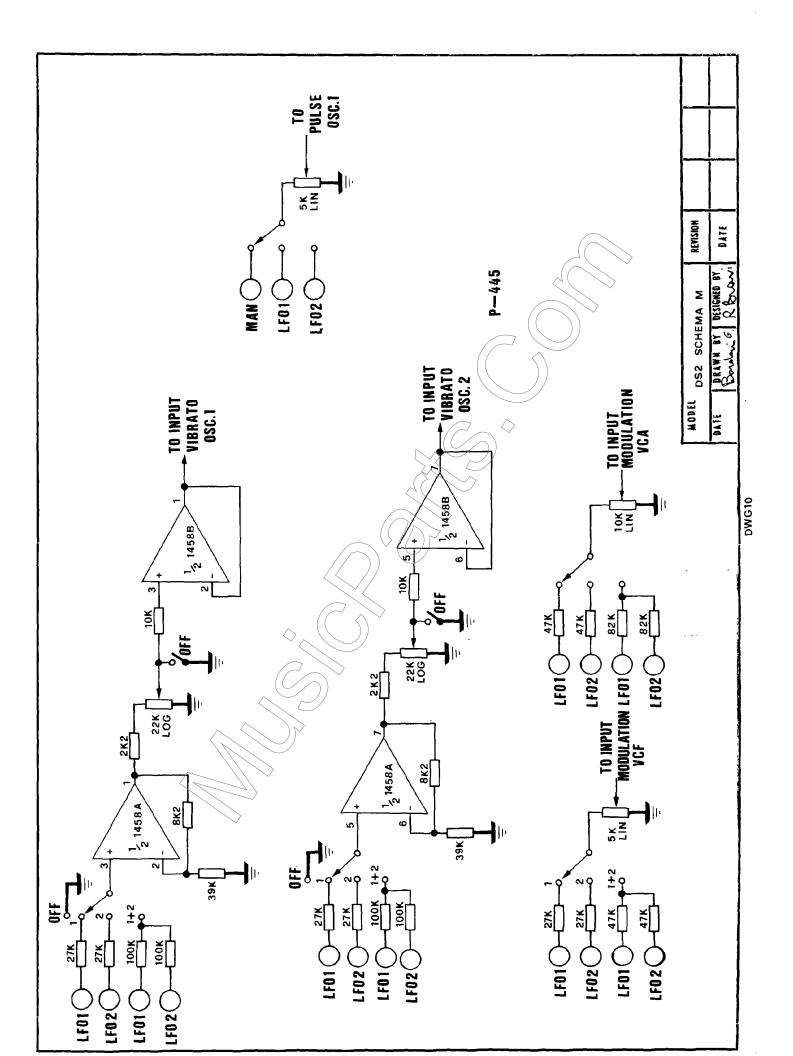
MODEL DS DS SCHEMA L	REVISION	-	
DATE DRAWN BY DESIGNED BY	DATE		

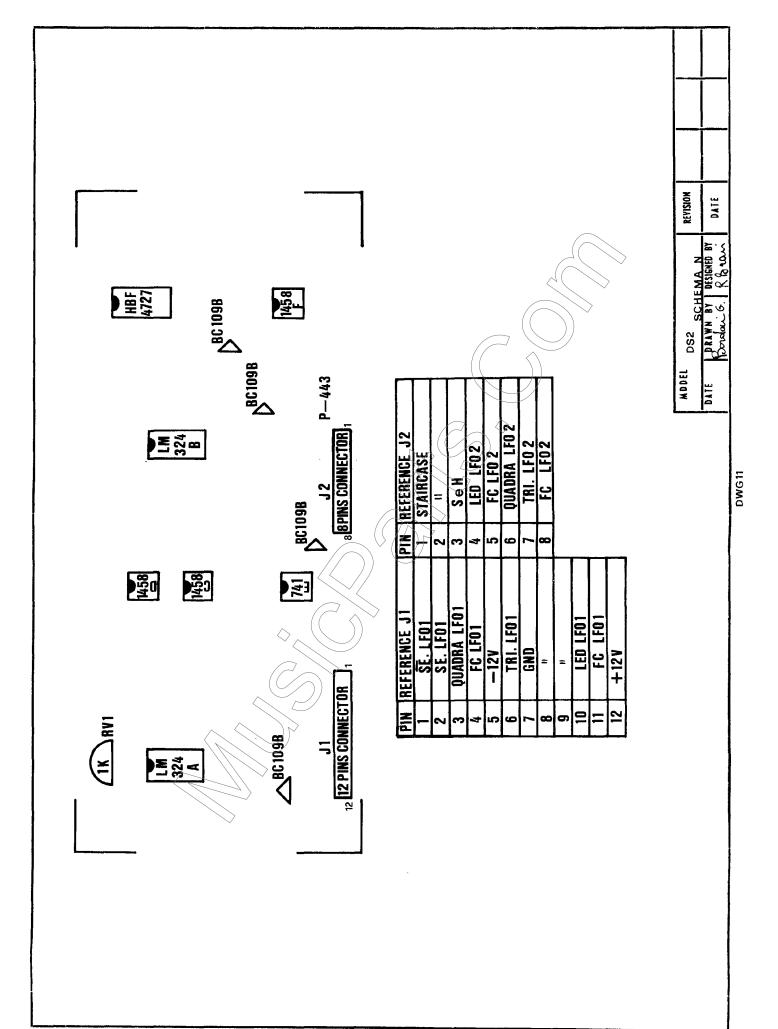
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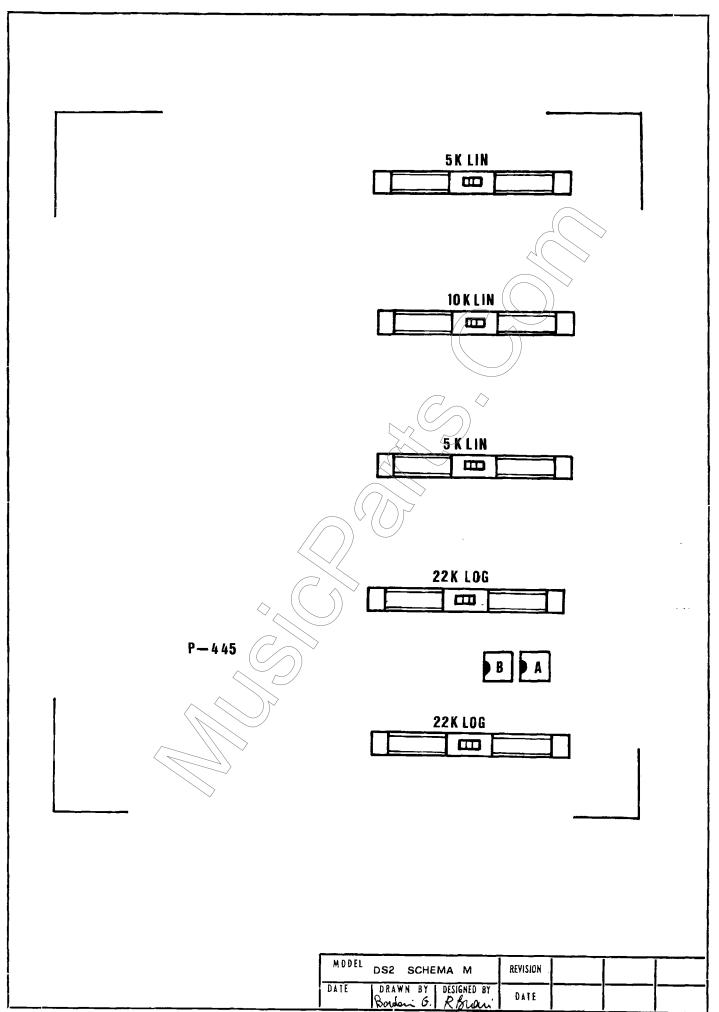


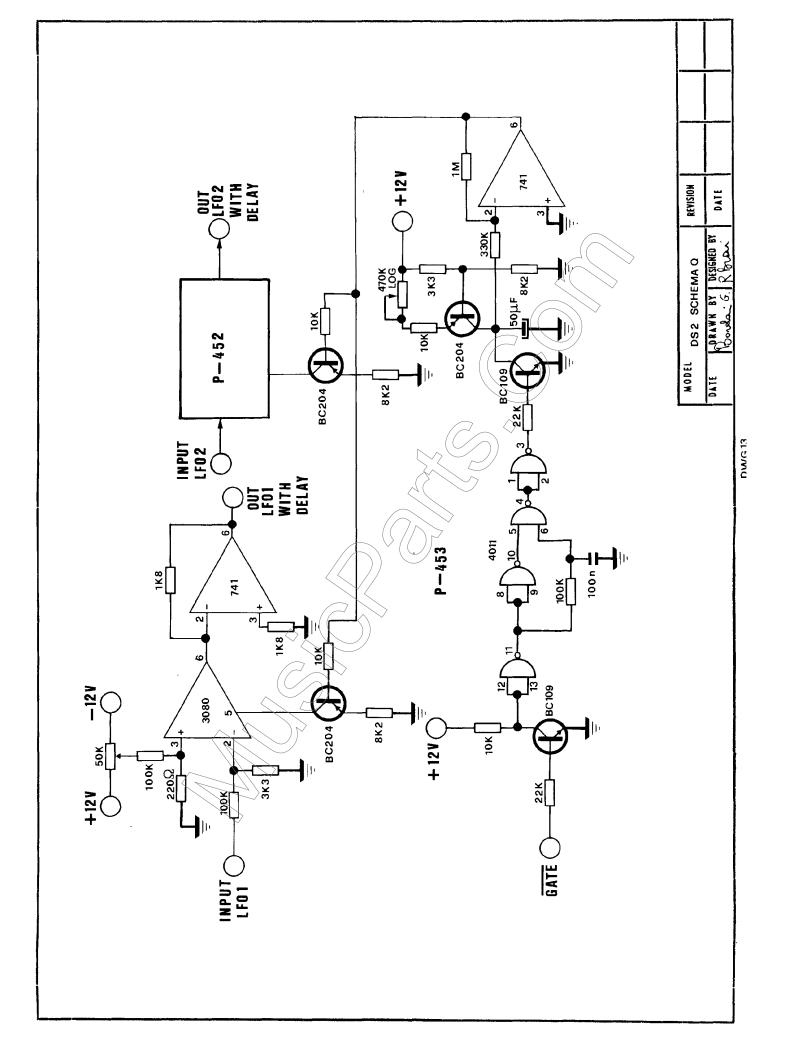
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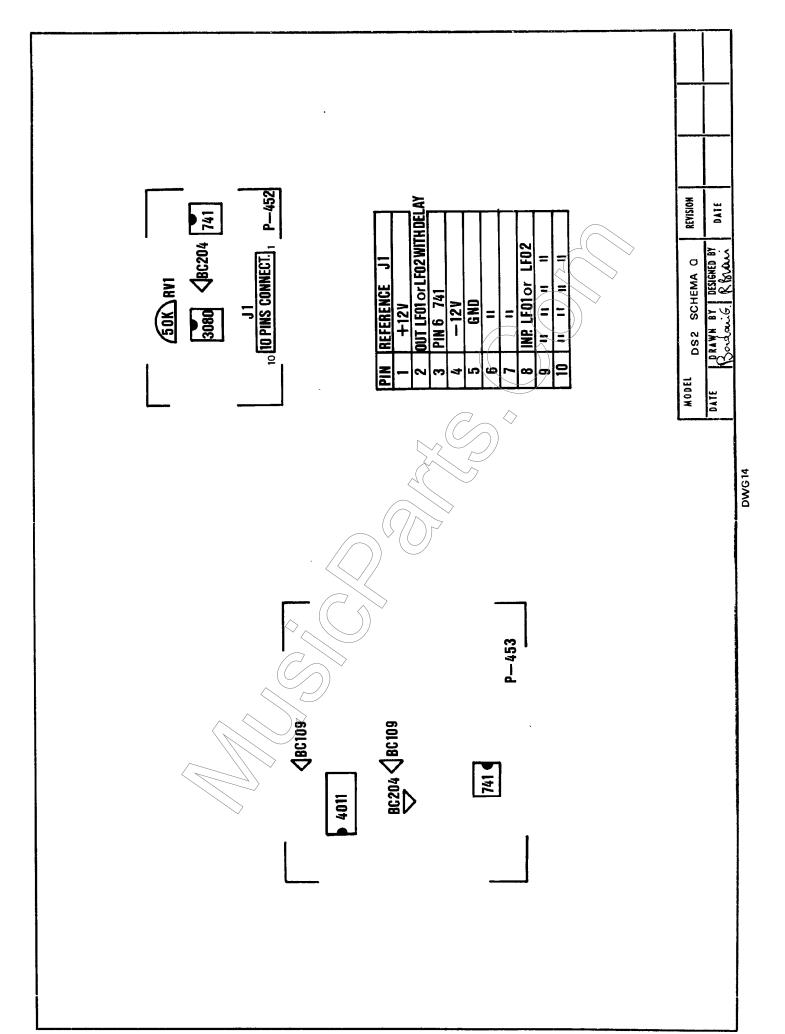


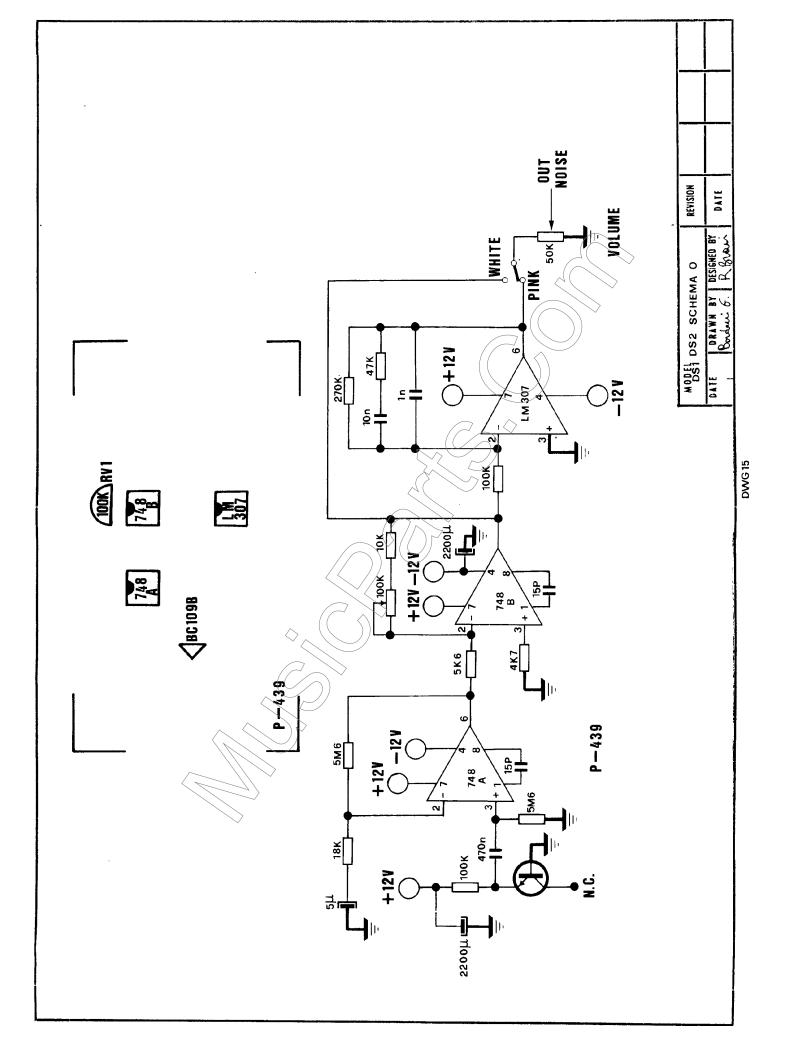


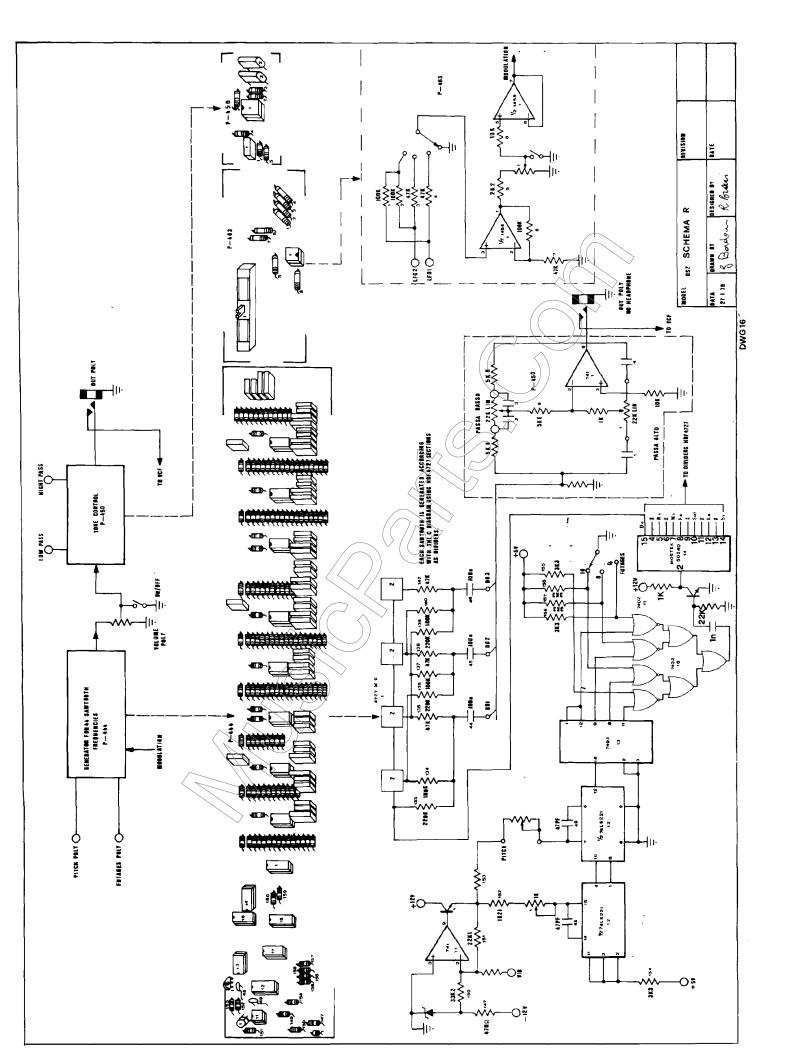


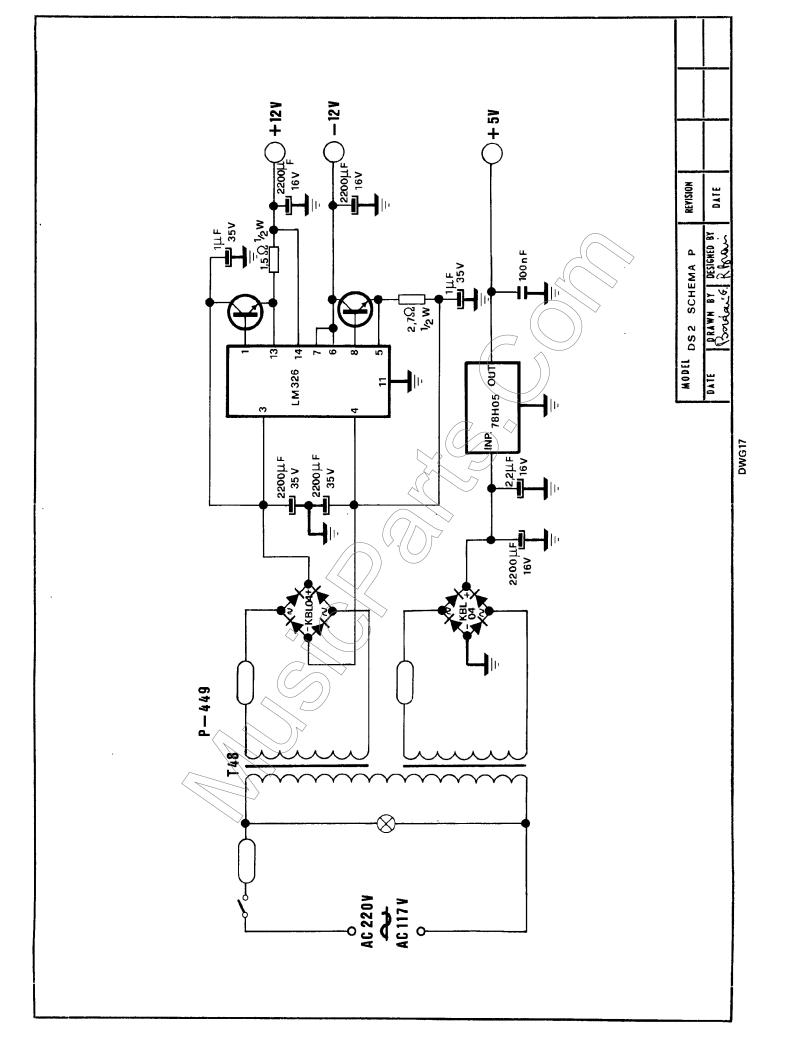


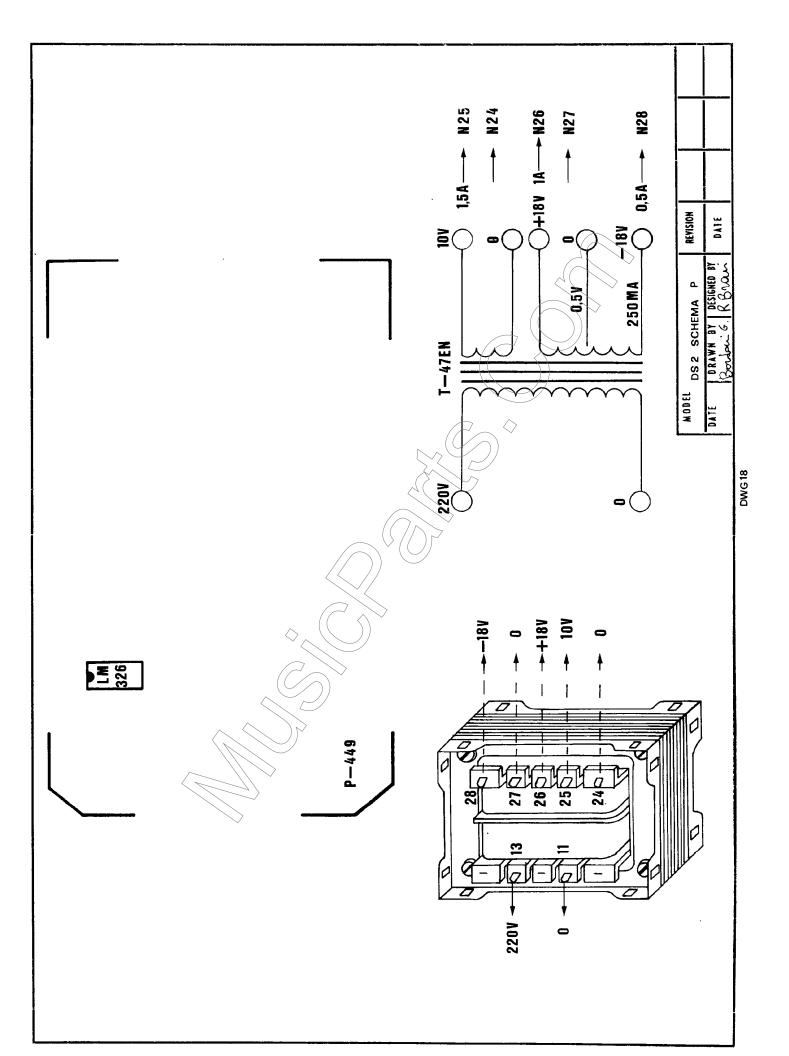


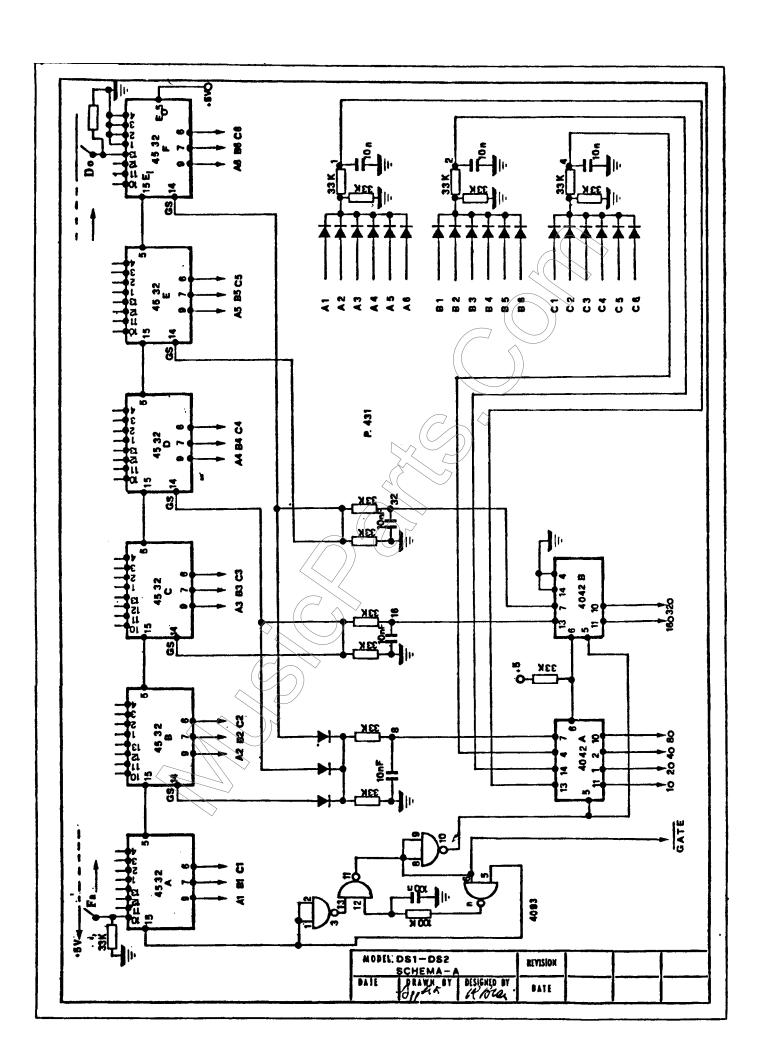


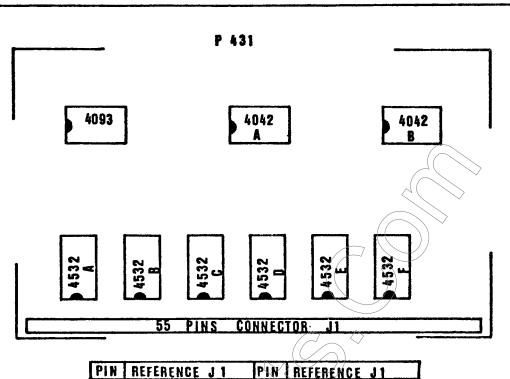






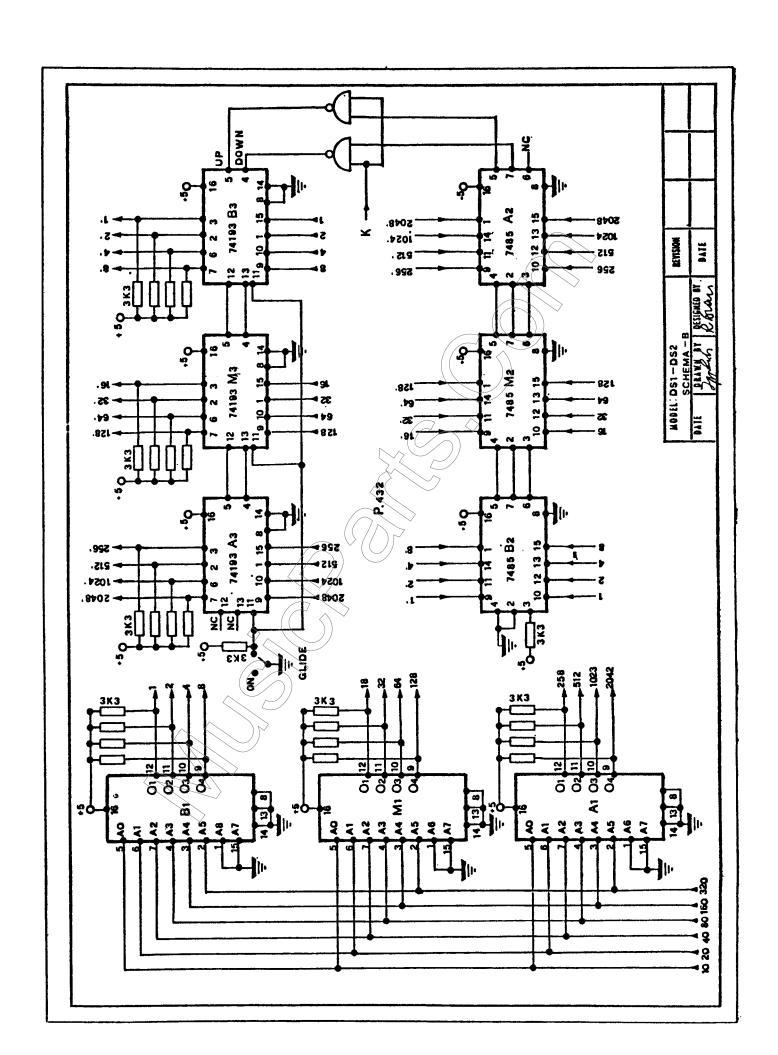


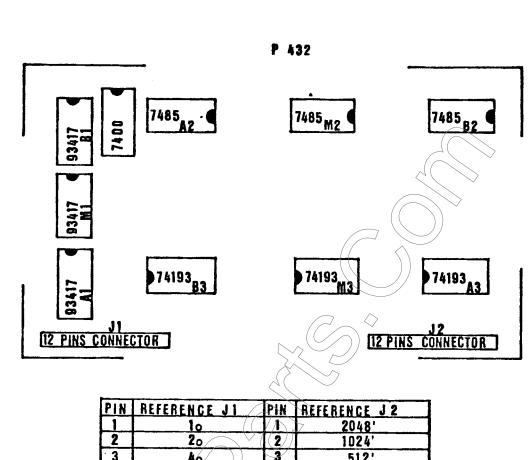




PIN	DESERVACE 11	PIN	DEFENSE 11
110		28	REFERENCE J1
	Fa Fa	20	La
2	Fat	29	Las
3	Sol	30	
	Sc1#	31	Si
5	la	32	Do
5 6 7	L•/#	33	Do♯
	%i /</th <th>34</th> <th>Re</th>	34	Re
8	Do	35	Re♯
9	Doi	36	Mi
10	Re	37	Fa
11	Ret	38	Fa#
12	Mi	39	Sol
13	Fa	40	Sol#
14	Fat	41	La
15	Sol	42	La #
16	Sol#	43	Si
17)) La	44	Do
18	La #	45	+51
19	Si	46	GND
20	Do	47	10
21	Do#	48	20
22	Re	49	40
23	Re♯	50	80
24	Mi	51	160
25	Fa	52	32 o
26	Fa#	53	+5V
27 .	Sol	54	GND
		55	GATE NEG

MODEL DS1 DS2 SCHEMA A			
BATE BRAWN BY DESIGNED BY.	DATE		





PIN	REFERENCE J1	PIN	REFERENCE J 2
1	lo(2048'
2	20	(2)	1024'
3	46/	3	512'
4	80	4	256'
5	160	5	128'
6	320	6	64'
7	GND	7	32'
8	GND	8	16'
9	+54	9	8'
10		10	4'
11_{\wedge}	PORT SW	11	2'
12		12	

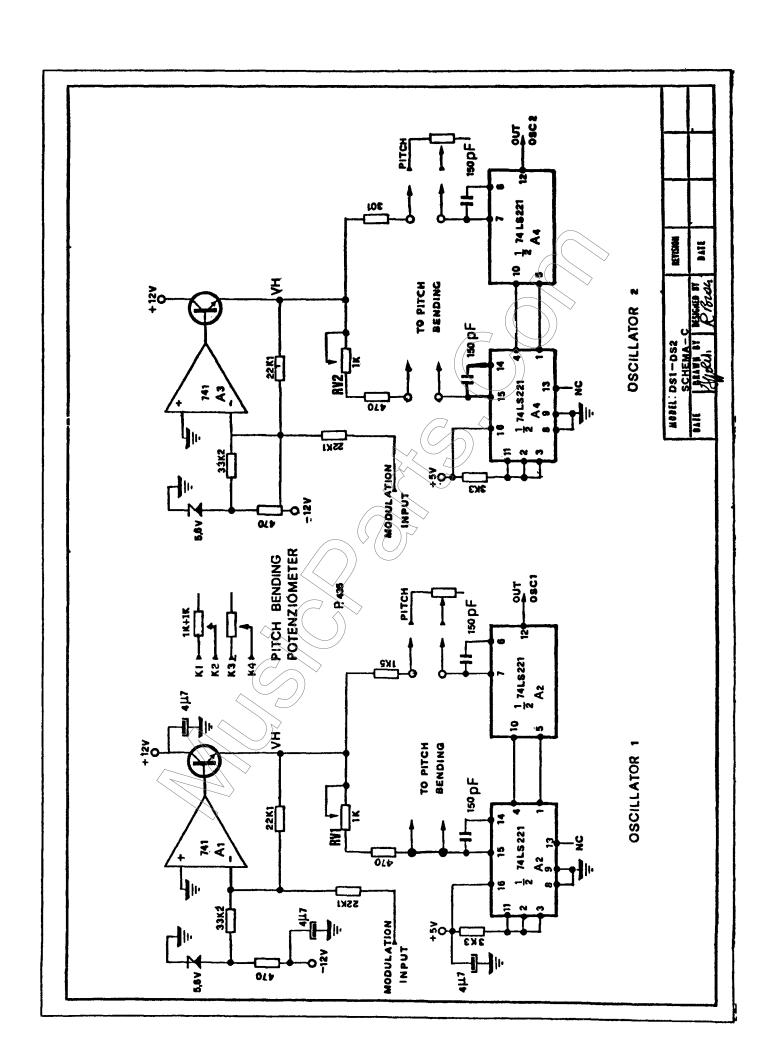
MODEL DS1 DS2

SCHEMA B

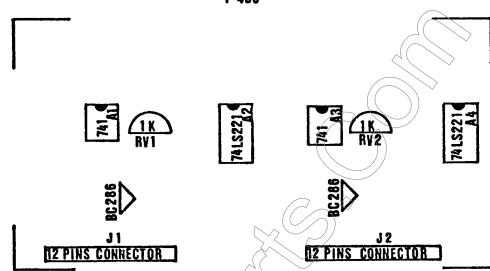
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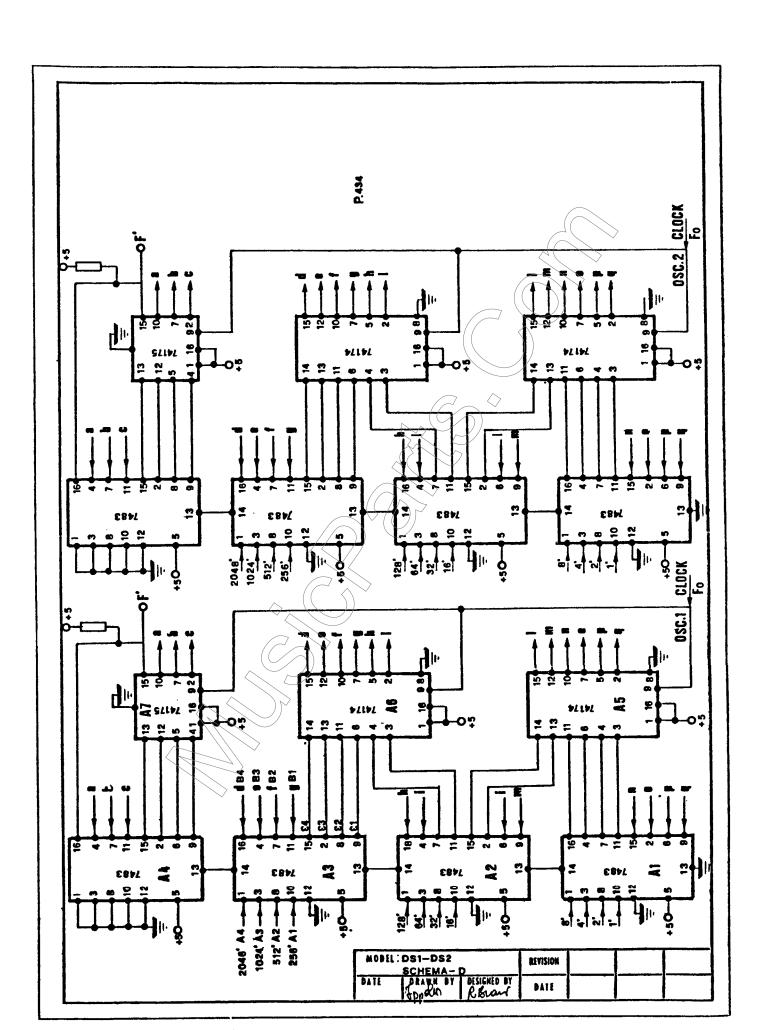


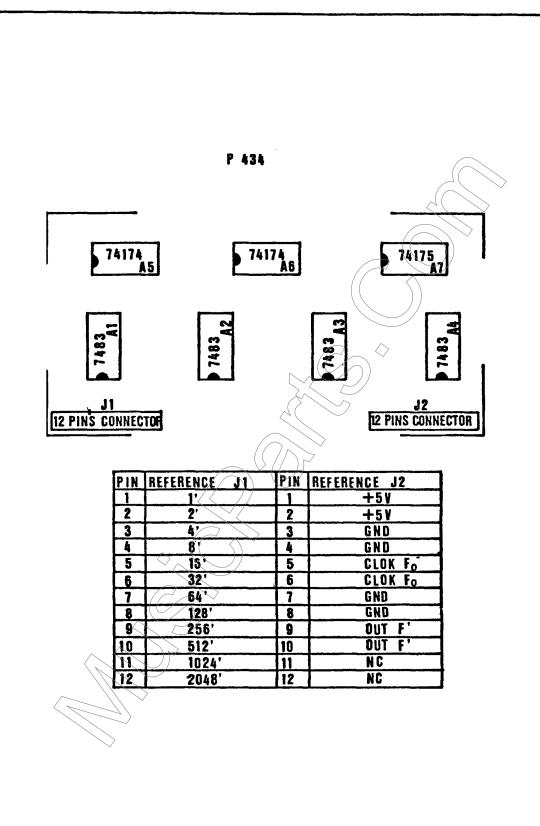




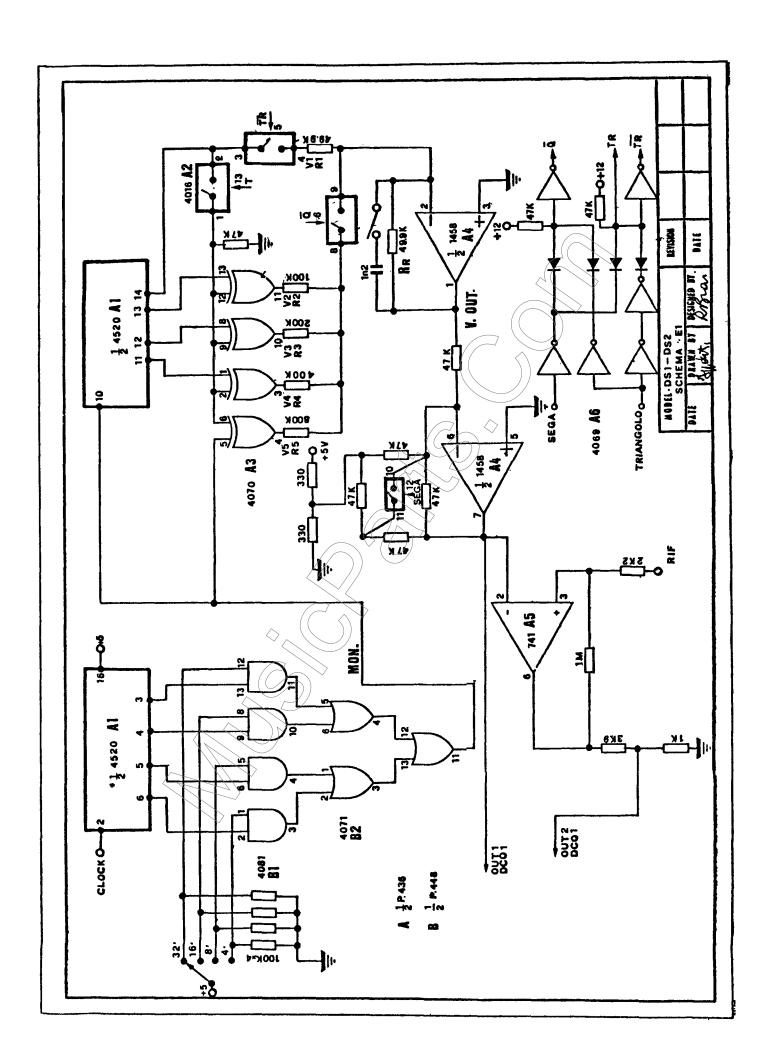
PIN	REFERENCE JI	PLN	REFERENCE J2
1	G NØ/	1	GND
2	GNO	2	GND
3	GND	3	GND
4	- 12V	4	—12V
5	O MOD INPUT	5	MOD INPUT
6	+124	6	+12 4
7.		7	K 3
8	K2	8	K 4
9/	4 5 y	9	+5Y
10	OSC1 OUT	10	OSC 2 OUT
M.	PITCH	11	PITCH
12	PITCH	12	PITCH

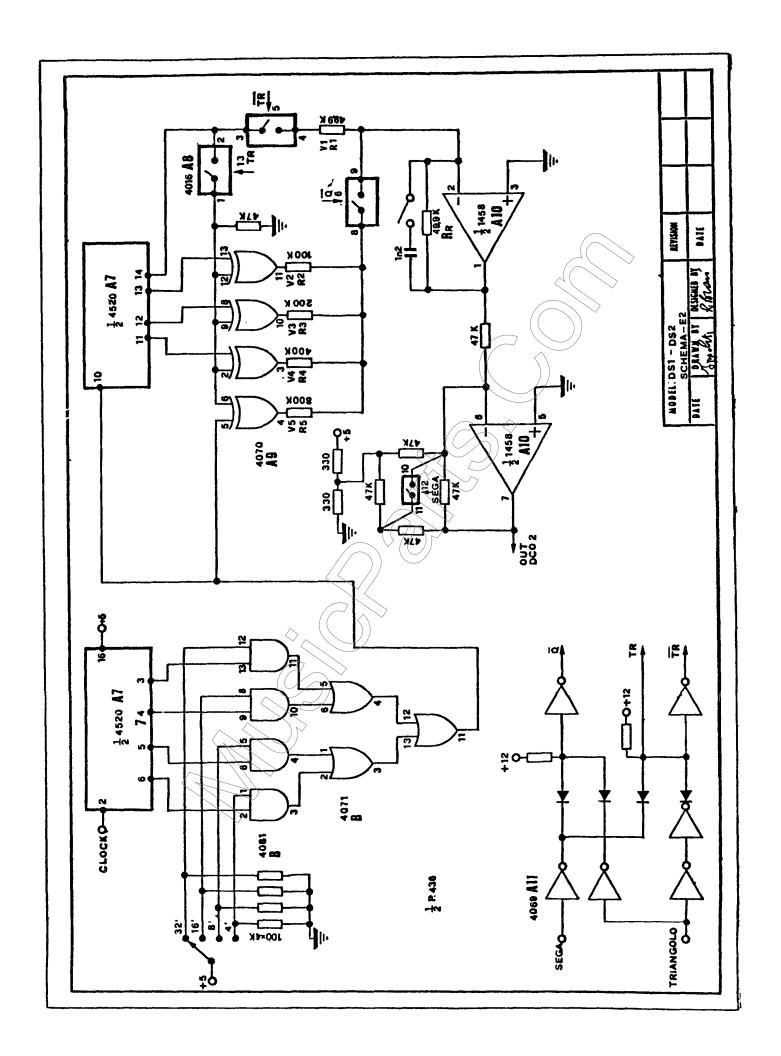
MODEL DS DS	C	BEAIZION		
BATE BRAWN BY	REGIONED BY	DATE		

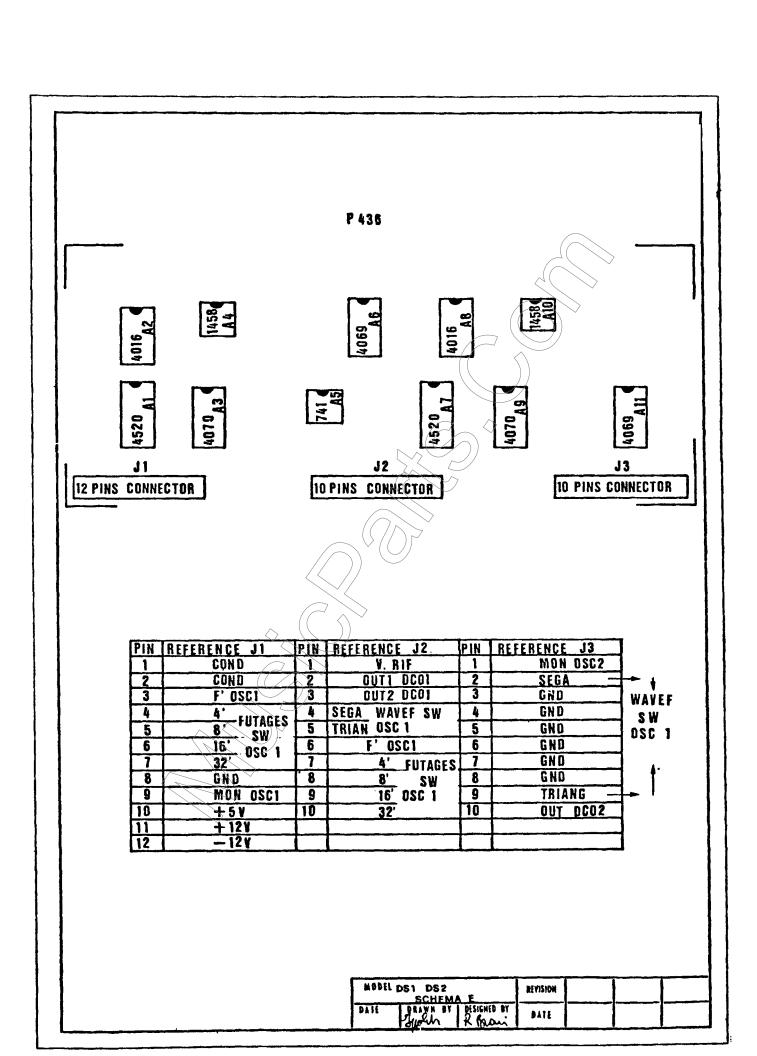


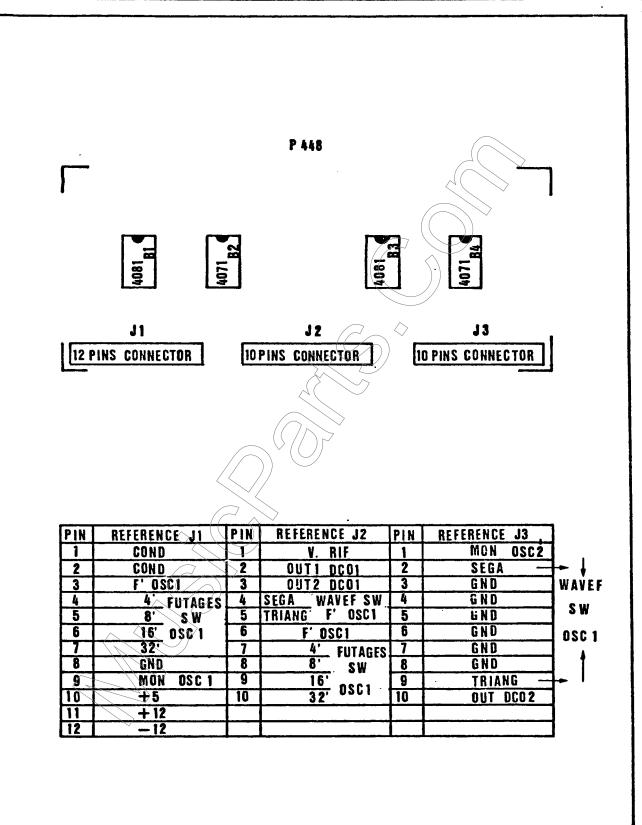


WODEL	DS1 DS2 SCHEMA D	BEATZION		
DATE	BRAWN BY DESIGNED	DATE DATE		









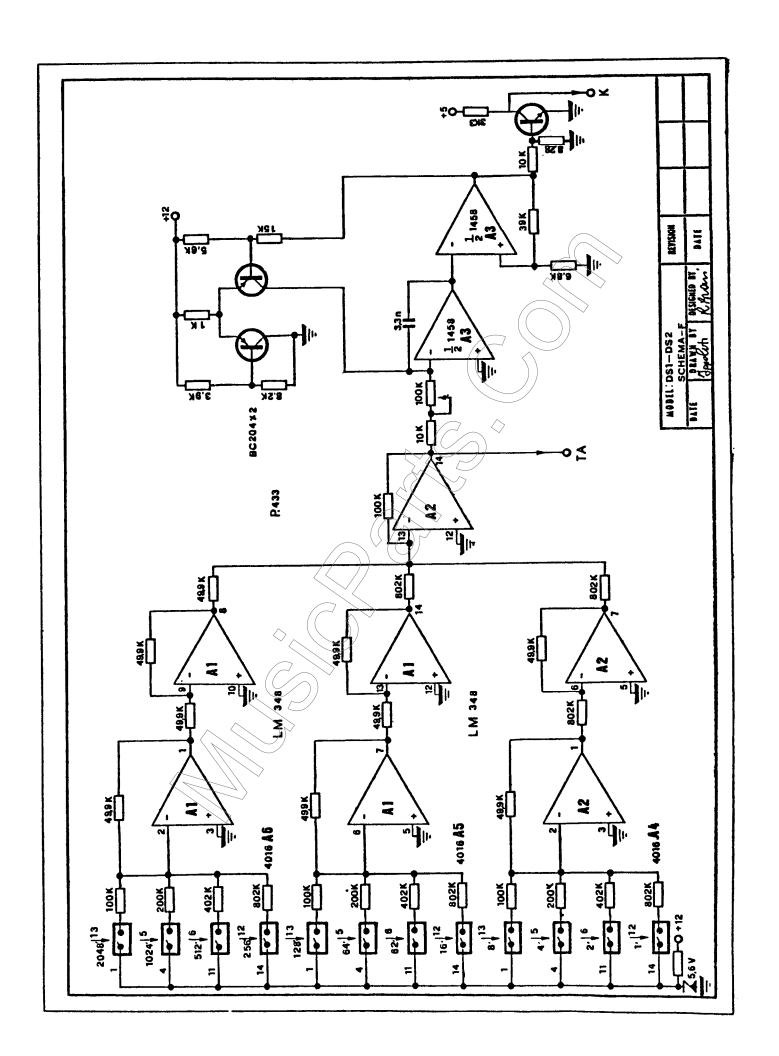
MODEL DS1

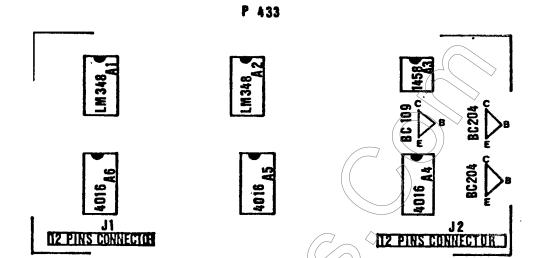
DS2

DRAWN BY DESIGNED BY

REVISION

DATE





PIN	REFERENCE J1 //	PIN	REFERENCE J2
1	+121	(1)	2048'
2	GND	2	1024'
3	GNO	3	512'
4	+5	4	256'
5	+5	5	128'
6	K · <	6	64'
7		7	32'
8	TA	8	16'
9	(ATA)	9	8'
10	-12V	10	4'
11 <	GLIDE RATE	11	2'
12	GLIDE RATE	12	1'

	MODEL	DS1 DS2 SCHEMA	F	REVISION		
į	DAJE	Brien's	RESIGNED BY	DATE		

TAVOLA DELLA VERITA' N.1

				كسيسيسي		
	320	160	80	40	20	10
FA	0	0	0	o	0	0
FA"	0	o	0	ŏ	Ö	1.
SOL	0	0	0	o	1	ō
SOL"	0	Ö	Ö	Ö	ī	1
LA	0	Ö	0	Ĭ	ō	o´
LA"	0	0	0		Ö	1
SI	0	Ö	ō	1 1		ō
			-	**		•
DO	0	0	0	1		1
DO"	0	0	1	0	0	0
RE	0	0	1	0	0	1
RE"	0	0	1	0)) 1	0
MI	0	0	1	0 1	1	1
FA	0	0	1	((1 \)	0	0
FA"	0	0	1	1	0	1
SOL	0	0	1	1	1	0
SOL"	0	0	1	_1	1	1
LA	0	1	0 ((1 0	0	0
LA"	0	1	0	/// o	O	1
SI	0	1	0	o	1	0
60	o	1	0	0	1	1
DO"	Ō	1 (0	1	ō	ō
RE	0	1	\rightarrow (o)	1	Ö	1
RE"	0	1//	0	1	1	ō
M I	Ō	1 //	0	1	1	1
FA	0	1	1	Ö	Ö	Ō
FA"	0		1	0	0	1
SOL	0 <		1	0	1	0
SOL"	0	1	1	0	1	1
LA	0		1	1	0	0
LA"	0	(1	1	0	1
SI	0		1	1 1	1	0
DO	0	1	1	1	1	1
DO"	1	0	0	0	0.	0
RE		0	0	0	0	1
RE"	1	0	0	0	1	0
MI	\mathbf{i}	0	0	0	1	1
FA	1	0	0	1	0	0
FA"	1	0	0.	1 1	0	1
SOL	1	0	0		1	0
SOL"	1	0	0	1	1	1
LA	1	0	1	0	0	o a
LA**	1	0	1	0	0	Œ
SI	1	0	- 1	0	1	0
80	1	0	í	o	1	1

TAVOLA DELLA VERITA' N.2

		93417	A			934	17 M			934	17 B		Fattori di
	04	03	\mathfrak{o}_{2}	o_1	o_4	03	02	01	04	03	0_2	\mathfrak{o}_{1}	 moltiplicazione
	2048	1024	512	256	12 8	64	32	16	8	4	2	1	
FA	0	0	0	0	1	1	1	0	1	1	1	1	239
FA"	0	0	0	0	1	1	1	1	1	1	0	1	.253
SOL	0	0	0	1	0	0	0	0	1	1	0	0	268
SOL"	0	0	0	1	0	0	0	1	1	1	0	0	284
LA	0	0	0	1	0	0	1	0	1	1	0	1/	301
LA"	0	0	0	1	0	0	1	1	1	1	1	1 ~	319
SI	0	0	0	1	0	1	0	1	0	0 <	1(1)	O	338
DO	0	0	0	1	0	1	1	0	0	1	1	^{>} 0	358
D0"	0	0	O	1	0	1	1	1	1	O)1)	1	379
RE	0	0	0	1	1	0	O	1	0	0	1	0	402
RE"	0	0	0	1	1	0	1	0 ((1	0	1	0	426
M I	0	0	0	1	1	1	0	0	0		1	1	451
FA	0	0	0	1	1	1	0	1		1	1	0	478
FA'	0	0	0	1	1	1	1	1		0	1	0	506
SOL	0.	0	1	0	0	0	0			0	0	0	536
SOL"	0	0	1	0	0	0	(1 ~>>	· /) 1	0	0	0	568
LA	0	0	1	0	0	1	0	1	1	0	1	0	602
LA"	0	0	1	0	0	1	1		1	1	1	0	638
SI	0	0	1	0	1	0	1	0	0	1	0	0	676
DO	0	0	1	0	1	_1((/\o_\	0	1	1	0	0	716
DO"	0	0	1	0	1//		1	1	0	1	1	0	758
RE	0	O	1	1	(D)) ō	1	0	0	1	0	0	804
RE"	0	0	1	1	0	/(1	0	1	0	1	0	0	852
MI	0	0	1	1		0	0	0	0	1	1	0	902
FA	0	0	1	1	(1	\bigcirc \circ	1	1	1	1	0	0	956
ĘΑ"	0	0	1		(I)	// 1	1	1	0	1	0	0	1.012
ŚOL	0	1	0	0	0	0	1	1	0	0	0	0	1.072
SOL"	0	1	0	(O)	0	1	1	1	0	0	0	0	1.136
LA	0	1	0))1	0	1	1	0	1	0	0	1.204
LA"	0	1	0	OC	1	1	1	1	1	1	0	Ö	1.276
SI	0	1	0		0	1	0	0	1	0	0	0	1.352
DO	0	1	10	1	1	0	0	1	1	0	0	0	1.432
DO"	0	1	0	1	1	1	1	0	1	1	0	0	1.516
RE	0	1		0	0	1	0	0	1	0	0	0	1:608
RE"	0	1	1	0	1	0	1	0	1	0	0	0	1.704
MI	0	1	1	1	0	0	0	0	1	1	0	0	1.804
FA	0	1	1	1	0	1	1	1	1	0	0	0	1.912
FA"	0	1	1	. 1	1	1	1	0	1	0	0	0	2.024
SOL	a.	0	0	0	0	1	1	0	0	0	0	0	2.144
SOL"	Ţ.	0	0	0	1	1	1	0	0	0	0	0	2.272
LA	1	0	0	1	0	1	1	0	1	0	0	0	2.408
LA"	1	0	0	1	1	1	1	1 1	0	0	0	0	2.552
SI	1	0	1	0	1	0	0			<u> </u>	U	0	2.704
DO	1	0	1	1	0	0	1	1	0	0	0	0	2.864

```
TAVOLE DELLA VERITA'
                                             Nº 4
                        T.A.
-0.62 V
FA
            239
FA"
            253
                        -0.65 V
SOL
            268
                        -0.70 V
SOL"
            284
                        -0.74 V
                        -0.79 V
LA
            301
LA"
            319
                        -0.83 V
SI
            338
                        -0.89 V
                                                 Keyboard
DO .
                                                 Control
            358
                        -0.94 V
                                                 Voltages∂
D0"
            379
                        -1
                               ٧
RE
            402
                        -1.06 V
RE"
            426
                        -1.13 V
ΜI
            451
                        -1.19 V
FA
                        -1.27 V
            478
FA"
            506
                        -1.34 V
SOL
                        -1.43 V
            536
SOL"
            568
                        -1.52 V
LA
                        -1.61 V
            602
                        -1.71 V
LA"
            638
SI
                        -1.81 V
            676
DO
            716
                        -1.92 V
D0"
            758
                        -2.03 V
RE
            8,04
                        -2.16 V
                        -2.29 V
RE"
            852
                        -2,42 V
            902
MI
                        -2.56 N
FA
            956
                        -2.73 V
FA"
           1012
SOL
           1072
                        -2.90 V
SOL"
                        -3×07)V
           1136
LA
                        -3.26 V
           1204
LA"
                        -3.46 \text{ V}
           1276
                        -3.66 V
SI
           1352
DO
                        -3.88 V
           1432
D0"
                        -4.11 V
           1515
                        -4.36 V
RE -
           1608
RE"
           1704
                        -4.62 V
MI
           1804
                        -4.90 V
                        -5.19 V
FA
           1912
FA"
           2024
                        -5.50 V
                        -5.85 V
SOL
           2144
                        -6.20 V
SOL"
           2272
                        -6.57 V
LA
           2408
LA"
           2552
                        -6.96 V
                        -7.38 V
SI
           2704
                        -7.80 V
DO
           2854
```